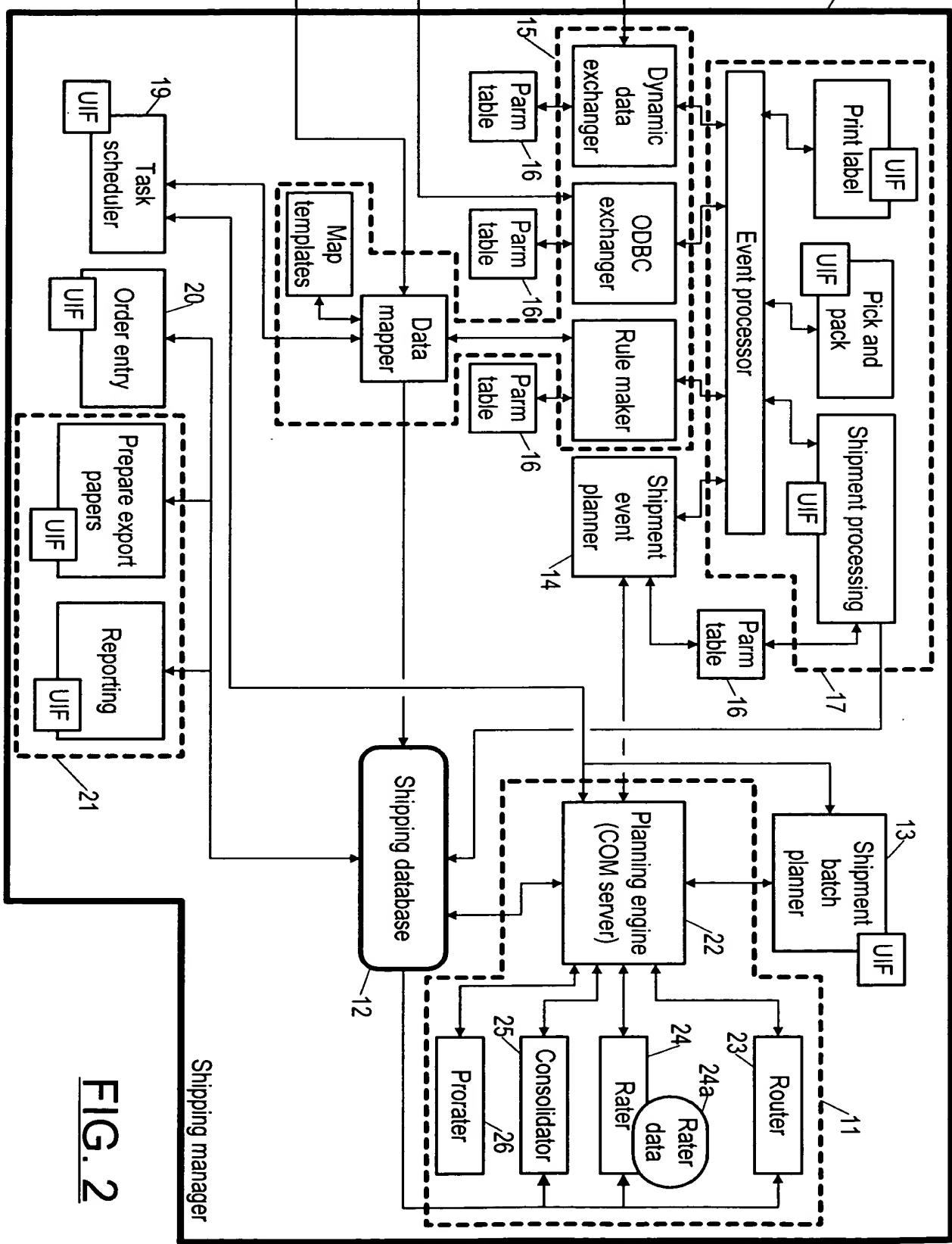


FIG. 1



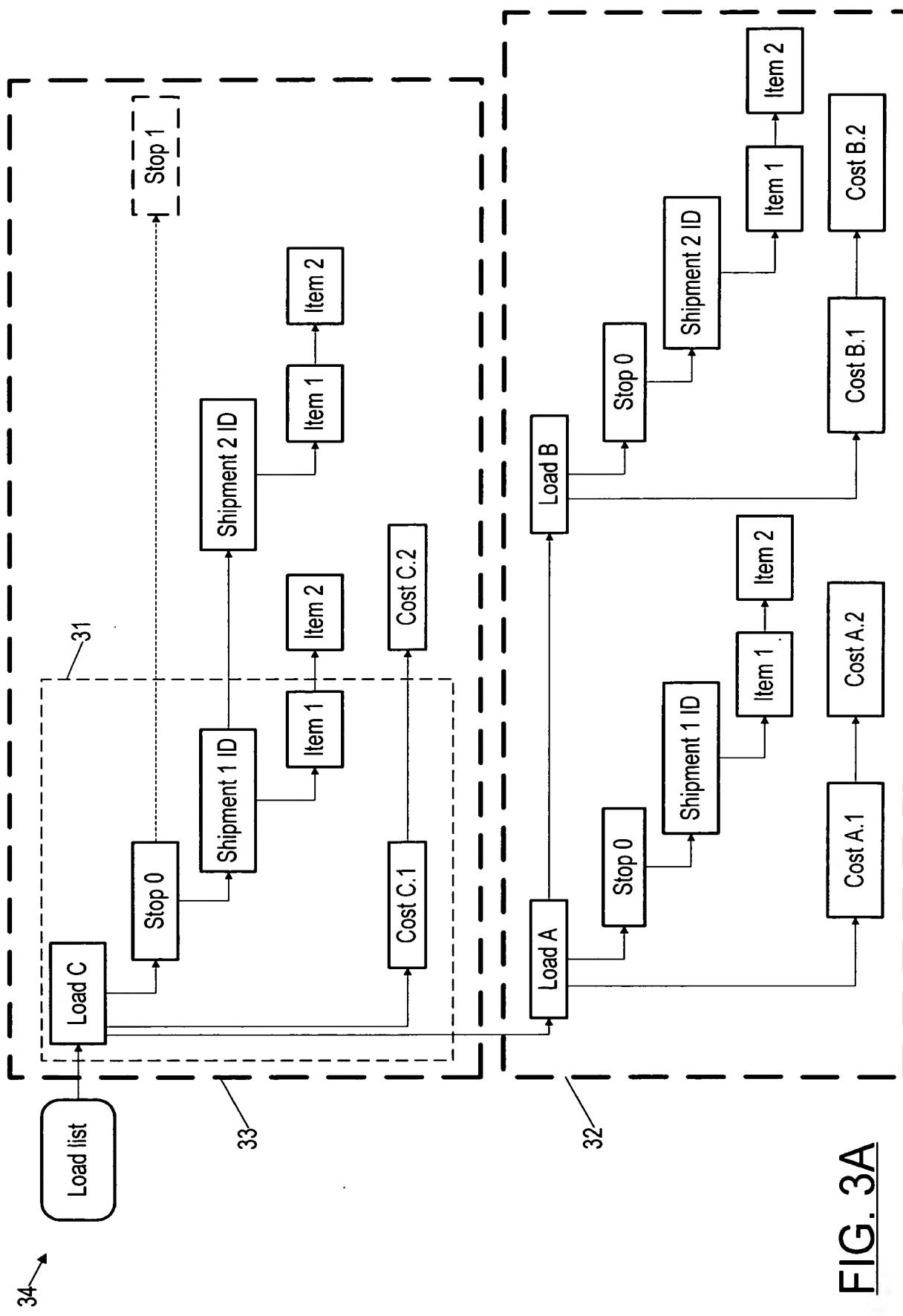


FIG. 3A

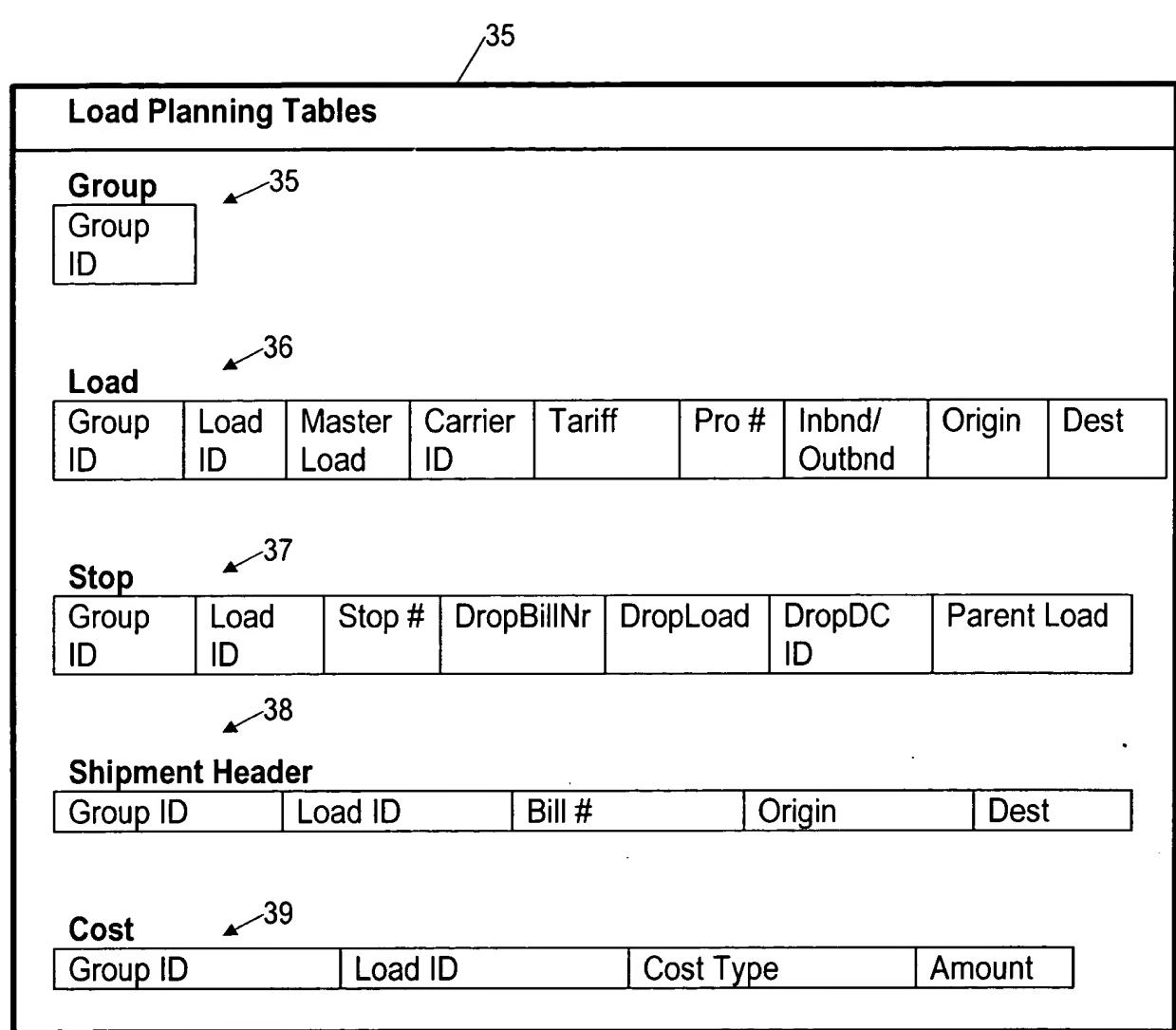


FIG. 3B

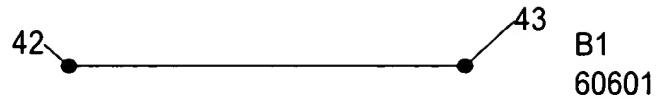
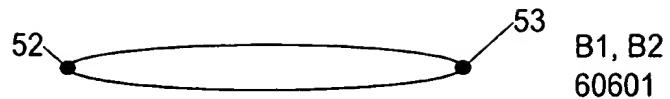


FIG. 4A

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Direct Shipment Records from Load Planning Tables													
Group													
Group ID													
G1													
Load													
Group ID	Load ID	Master Load	Carrier ID	Tariff	Pro #	Inbnd/Outbnd	Origin	Dest					
G1	L1	ML1	UPS	UPSGD	1Z...	OUTBD	55420	60601					
Stop													
Group ID	Load ID	Stop #	DropBillNr	DropLoad	DropDC ID	Parent Load							
G1	L1	0	B1										
Shipment Header													
Group ID	Load ID	Bill #		Origin		Dest							
G1	L1	B1		55420		60601							
Cost													
Group ID	Load ID	Cost Type			Amount								
G1	L1	LINEHL			25.00								
G1	L1	DOD			10.00								
G1	L1	SATDEL			5.00								

FIG. 4B



55420

FIG. 5A

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Direct Consolidation Records from Load Planning Tables								
Group								
Group ID								
G1								
Load								
Group ID	Load ID	Master Load	Carrier ID	Tariff	Pro #	Inbnd/Outbnd	Origin	Dest
G1	L1	ML1	RDWY	507A	123	OUTBD	55420	60601
Stop								
Group ID	Load ID	Stop #	DropBillNr	DropLoad	DropDC ID	Parent Load		
G1	L1	0	B1					
G1	L1	0	B2					
Shipment Header								
Group ID	Load ID		Bill #		Origin		Dest	
G1	L1		B1		55420		60601	
G1	L1		B2		55420		60601	
Cost								
Group ID	Load ID		Cost Type		Amount			
G1	L1		LINEHL		1000.00			
G1	L1		INSDEL		50.00			

FIG. 5B

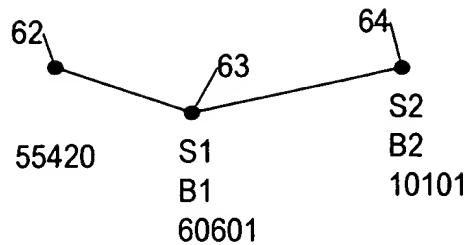
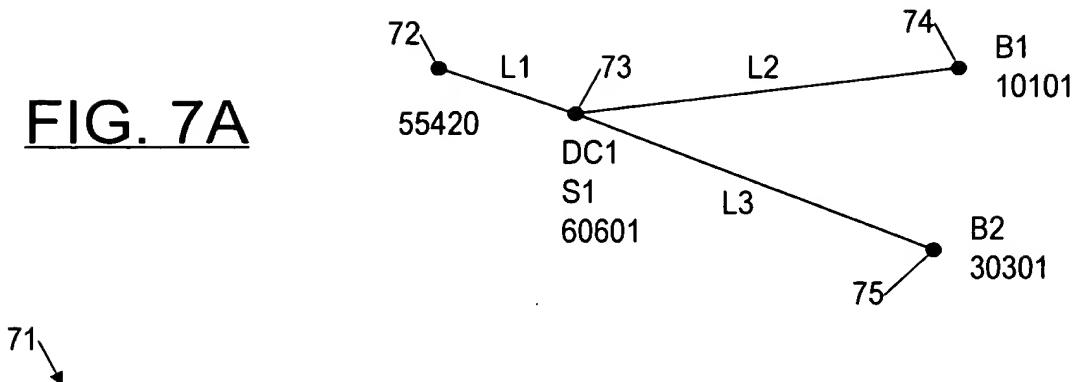


FIG. 6A

Multistop Truckload Records from Load Planning Tables								
Group								
Load								
Group ID	Load ID	Master Load	Carrier ID	Tariff	Pro #	Inbnd/Outbnd	Origin	Dest
G1	L1	ML1	DART	500	123	OUTBD	55420	10101
Stop								
Group ID	Load ID	Stop #	DropBillNr	DropLoad ID	DropDC ID	Parent Load		
G1	L1	1	B1					
G1	L1	2	B2					
Shipment Header								
Group ID	Load ID	Bill #	Origin	Dest				
G1	L1	B1	55420	60601				
G1	L1	B2	55420	10101				
Cost								
Group ID	Load ID	Cost Type	Amount					
G1	L1	LINEHL	1000.00					
G1	L1	STPOFF	50.00					

FIG. 6B

FIG. 7A



Distribution Center Truckload Records from Load Planning Tables

Group

Group ID
G1

Load

Group ID	Load ID	Master Load	Carrier ID	Tariff	Pro #	Inbnd/Outbnd	Origin	Dest
G1	L1	ML1	DART	500	123	OUTBD	55420	60601
G1	L2	ML1	UPS	UPSGD	1Z...	OUTBD	60601	10101
G1	L3	ML1	RDWY	507A	987	OUTBD	60601	30301

Stop

Group ID	Load ID	Stop #	DropBillNr	DropLoad	Drop DC ID	Parent Load
G1	L1	1		L2	DC1	
G1	L1	1		L3	DC1	
G1	L2	0	B1			L1
G1	L3	0	B2			L1

Shipment Header

Group ID	Load ID	Bill #	Origin	Dest
G1	L2	B1	55420	10101
G1	L3	B2	55420	30301

Cost

Group ID	Load ID	Cost Type	Amount
G1	L1	LINEHL	1000.00
G1	L2	LINEHL	25.00
G1	L2	COD	10.00
G1	L3	MIN	100.00
G1	L3	COD	10.00

FIG. 7B

FIG. 8A

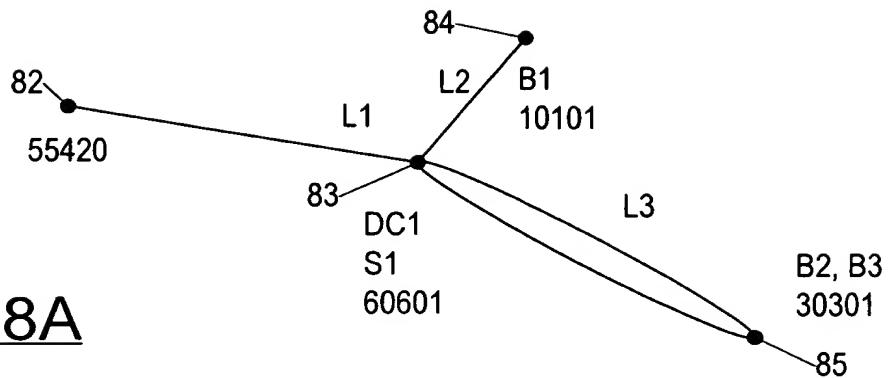
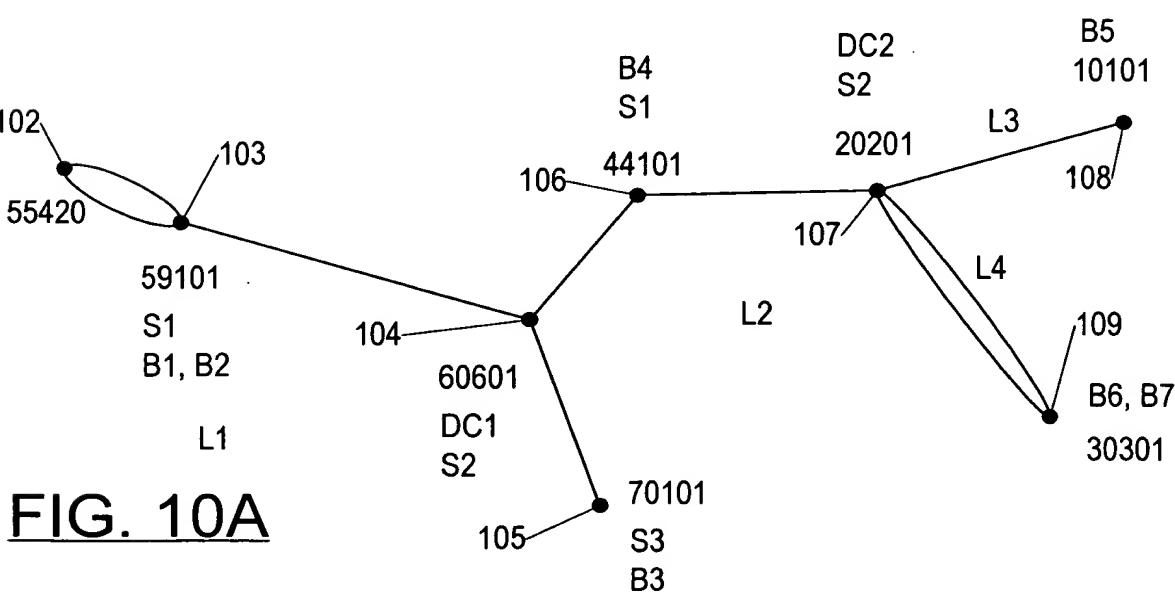
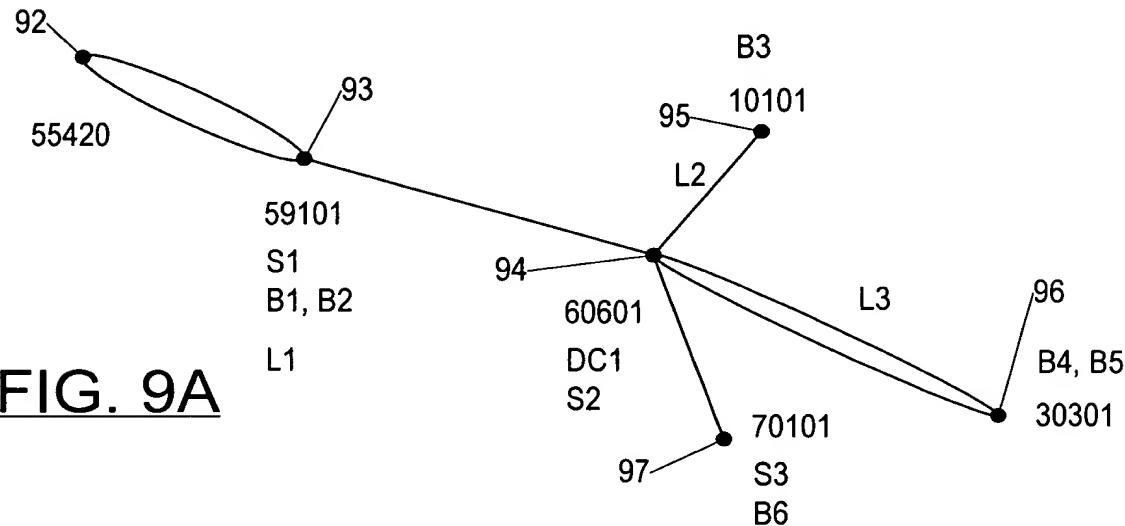


FIG. 9A



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Consolidation out of a Distribution Center Records from Load Planning Tables

Group

Group ID
G1

Load

Group ID	Load ID	Master Load	Carrier ID	Tariff	Pro #	Inbnd/Outbnd	Origin	Dest
G1	L1	ML1	DART	500	123	OUTBD	55420	60601
G1	L2	ML1	UPS	UPSGD	1Z...	OUTBD	60601	10101
G1	L3	ML1	RDWY	507A	987	OUTBD	60601	30301

Stop

Group ID	Load ID	Stop #	DropBillNr	DropLoad	DropDC ID	Parent Load
G1	L1	1		L2	DC1	
G1	L1	1		L3	DC1	
G1	L2	0	B1			L1
G1	L3	0	B2			L1
G1	L3	0	B3			L1

Shipment Header

Group ID	Load ID	Bill #	Origin	Dest
G1	L2	B1	55420	10101
G1	L3	B2	55420	30301
G1	L3	B3	55420	30301

Cost

Group ID	Load ID	Cost Type	Amount
G1	L1	LINEHL	1000.00
G1	L2	LINEHL	25.00
G1	L2	COD	10.00
G1	L3	LINEHL	200.00
G1	L3	COD	10.00

FIG. 8B

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Combination Multistop, Distribution Center, and Consolidation Records										
Group										
<table border="1"> <tr> <td>Group ID</td> </tr> <tr> <td>G1</td> </tr> </table>									Group ID	G1
Group ID										
G1										
Load										
Group ID	Load ID	Master Load	Carrier ID	Tariff	Pro #	Inbnd/Outbnd	Origin	Dest		
G1	L1	ML1	DART	500	123	OUTBD	55420	70101		
G1	L2	ML1	UPS	UPSGD	1Z...	OUTBD	60601	10101		
G1	L3	ML1	RDWY	507A	987	OUTBD	60601	30301		
Stop										
Group ID	Load ID	Stop #	DropBillNr	DropLoad	DropDC ID	Parent Load				
G1	L1	1	B1							
G1	L1	1	B2							
G1	L1	2		L2	DC1					
G1	L1	2		L3	DC1					
G1	L1	3	B6							
G1	L2	0	B3				L1			
G1	L3	0	B4				L1			
G1	L3	0	B5				L1			
Shipment Header										
Group ID	Load ID	Bill #		Origin	Dest					
G1	L1	B1		55420	59101					
G1	L1	B2		55420	59101					
G1	L2	B3		55420	10101					
G1	L3	B4		55420	30301					
G1	L3	B5		55420	30301					
G1	L1	B6		55420	70101					
Cost										
Group ID	Load ID	Cost Type	Amount							
G1	L1	LINEHL	1000.00							
G1	L1	STPOFF	100.00							
G1	L2	LINEHL	25.00							
G1	L2	COD	10.00							
G1	L3	LINEHL	200.00							

FIG. 9B

Nested Loads Records from Load Planning Tables								
Group								
Group ID								
G1								
Load								
Group ID	Load ID	Master Load	Carrier ID	Tariff	Pro #	Inbnd/Outbnd	Origin	Dest
G1	L1	ML1	DART	500	123	OUTBD	55420	70101
G1	L2	ML1	ABC	500	543	OUTBD	60601	20201
G1	L3	ML1	UPS	UPSGD	1Z...	OUTBD	20201	10101
G1	L4	ML1	RDWY	507A	987	OUTBD	20201	30301
Stop								
Group ID	Load ID	Stop #	DropBillNr	DropLoad	DropDC ID	Parent Load		
G1	L1	1	B1					
G1	L1	1	B2					
G1	L1	2		L2	DC1			
G1	L1	3	B3					
G1	L2	1	B4					
G1	L2	2		L3	DC2			
G1	L2	2		L4	DC2			
G1	L3	0	B5					
G1	L4	0	B6					
G1	L4	0	B7					
Shipment Header								
Group ID	Load ID	Bill #	Origin	Dest				
G1	L1	B1	55420	59101				
G1	L1	B2	55420	59101				
G1	L1	B3	55420	70101				
G1	L2	B4	55420	44101				
G1	L3	B5	55420	10101				
G1	L4	B6	55420	30301				
G1	L4	B7	55420	30301				
Cost								
Group ID	Load ID	Cost Type	Amount					
G1	L1	LINEHL	1000.00					
G1	L1	STPOFF	100.00					
G1	L2	LINEHL	500.00					
G1	L2	STPOFF	50.00					
G1	L3	LINEHL	25.00					

FIG. 10B